

# Geo data op het web

Linda van den Brink

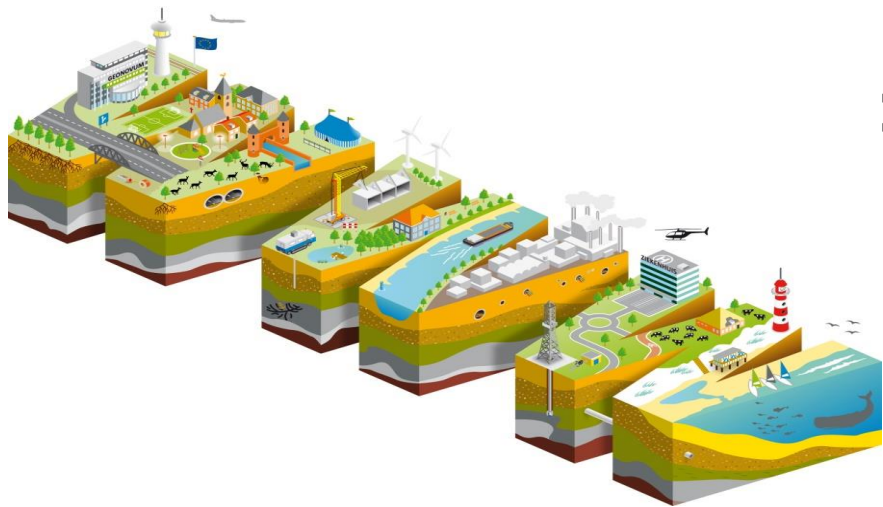
Geonovum

28 september 2016



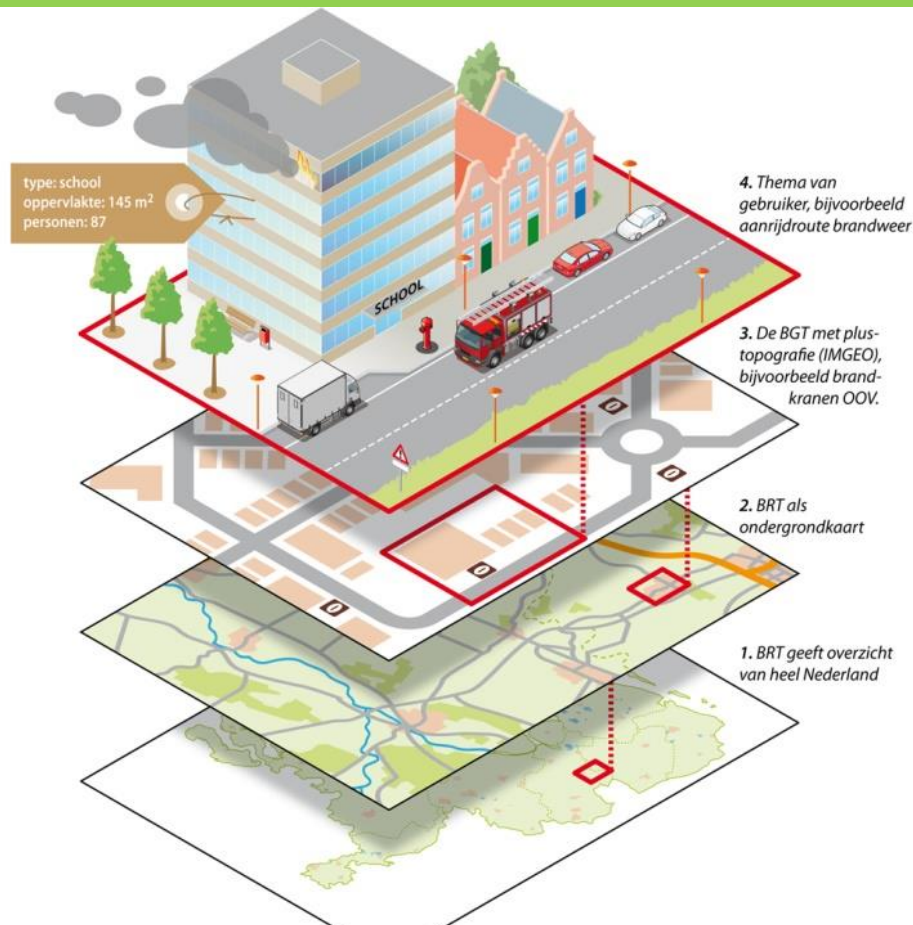
**@brinkwoman #geo4web**

**[I.vandenbrink@geonovum.nl](mailto:I.vandenbrink@geonovum.nl)**

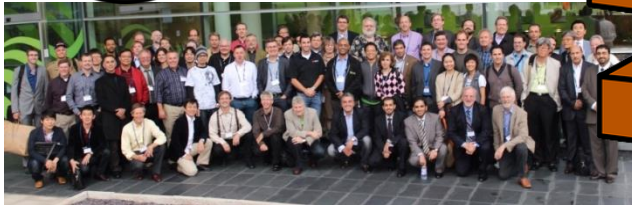
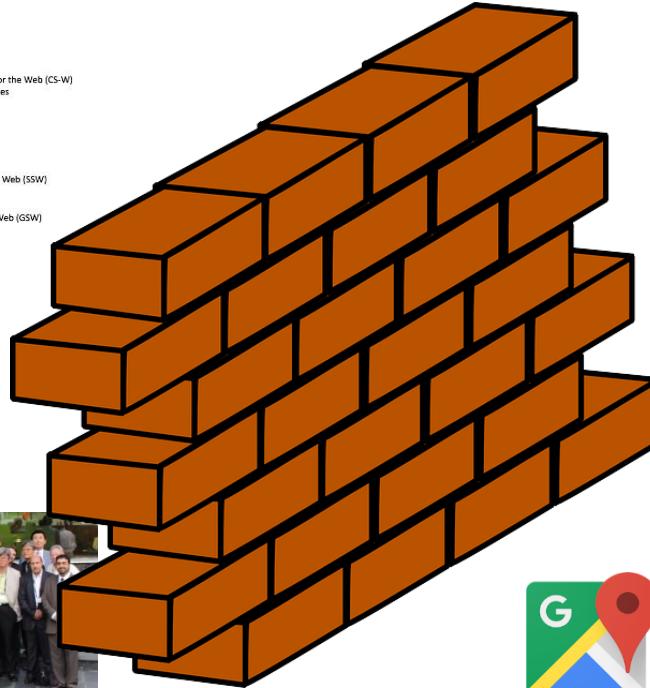
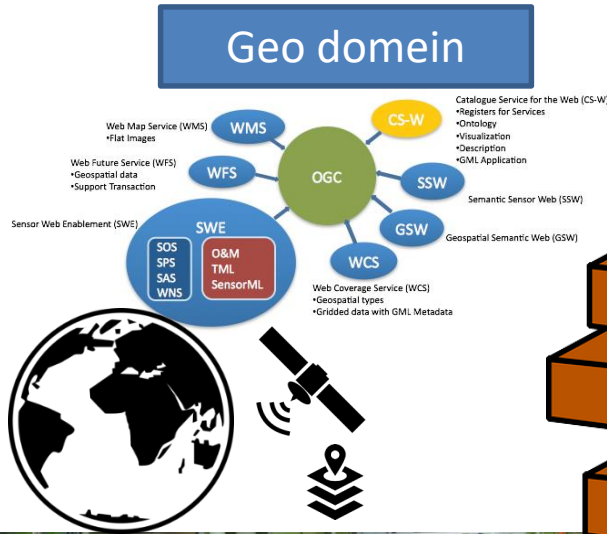


# Locatie en geo-informatie

“Locatie is een mooie zoekingang”



## Geodata >> op het Web



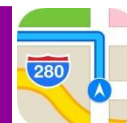
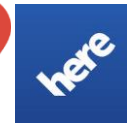
## Rest van de wereld

Linked  
Data

# RESTful APIs

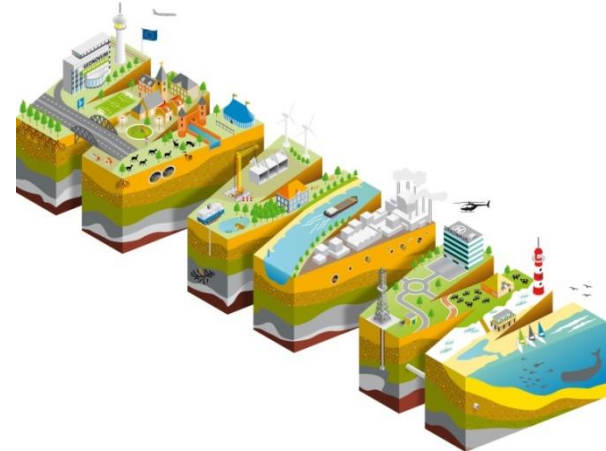


## HTML



## #geo4web testbed

- Een experimenteel testbed van Geonovum
- Om geodata onderdeel te maken van het web ecosysteem
- Vindbaar door zoekmachines
- Vriendelijk voor ontwikkelaars



# Vragen fase 1

## Q4 2015-Q1 2016

### #2: A usable spatial data publication platform

- find out how to make spatial data easy to find and more specifically to explore the idea of 'government as a platform'

### #3: Crawlable spatial data using the ecosystem of the Web and Linked Data

- find out what would be the best way to publish geospatial data not as a traditional SDI, but rather based on modern web technology, in such a way that it becomes part of the ecosystem of the web.

### #4: Spatial data on the web using the current SDI

- find out how to integrate traditional SDI with OGC services with the modern web of data.

## Lessons learned fase 1

1. Everyone in a platform or community has their own needs and capacities
  1. Make sure the needle can be found in the haystack
  2. Keep it simple
  3. Think carefully about who is allowed to do what
  4. Each speaks its own language and lives in his own world
2. Make search engines feel comfortable to discover you
  1. Show a search engine the direction with an XML sitemap
  2. Foster to link everything with everything
  3. Think of the future, use persistent URIs
  4. Make use of the structure, include Schema.org markup
3. Deal with the unknown set of developers and devices
  1. Serve your data in many different flavours
  2. Improve performance, reduce payload
4. Don't copy data, use proxies


## Geo4Web, fase 2

zomer 2016

### Evaluatie van LL fase 1




















-  implementeerde lessons learned fase 1
-   keken of het nu makkelijker is
- Data van Rijksdienst voor het Cultureel Erfgoed

<https://github.com/geo4web-testbed/topic1-task1>

 Graph Geo SPARQL Docs

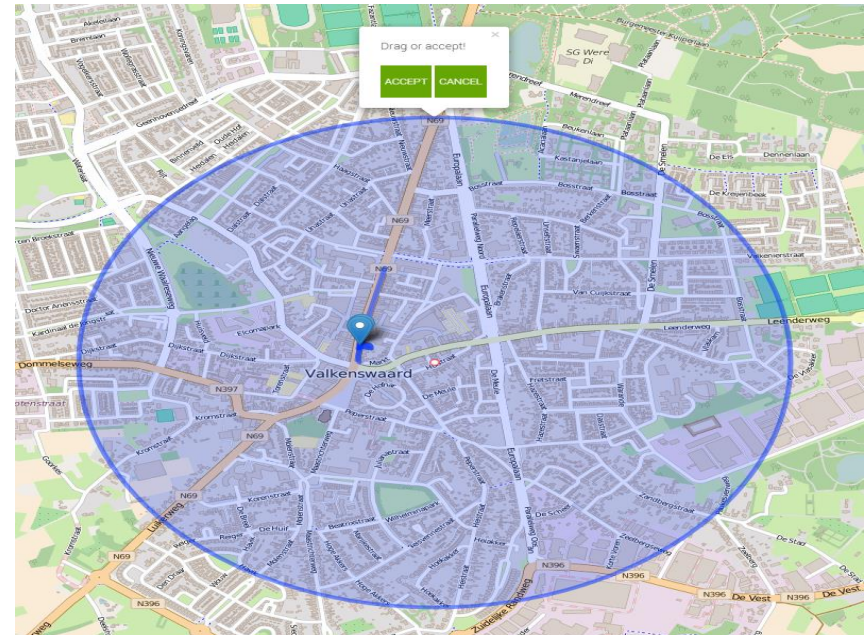
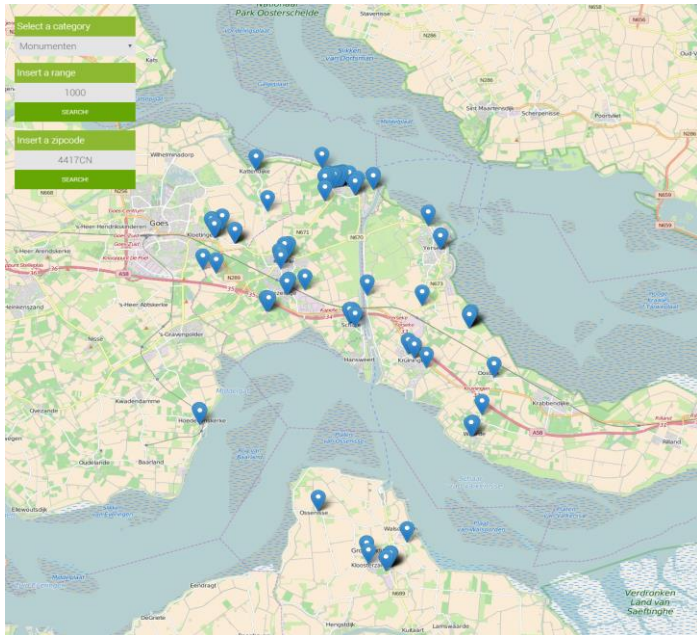
## Welcome to the Triply triple store

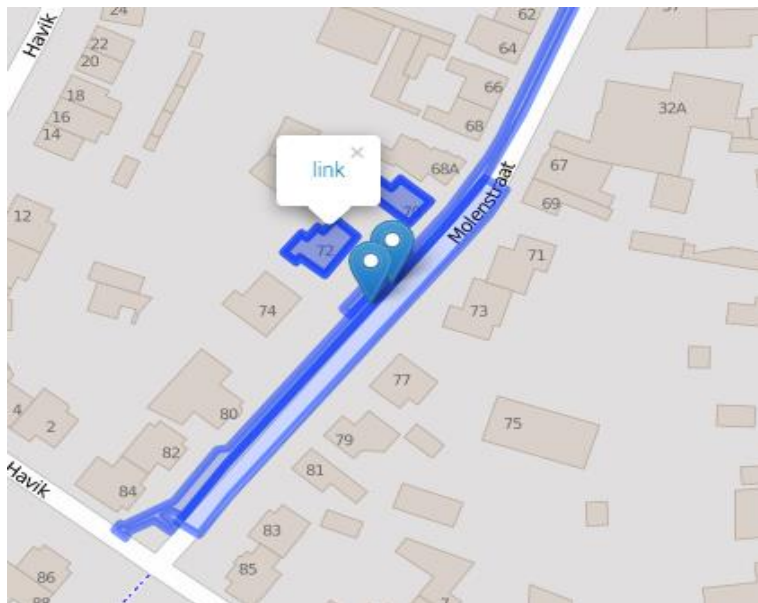
(early  $\alpha$  version)

Dataset	Graph
<a href="#">Monumenten</a> 	<a href="#">Monumenten/Data</a> 
	<a href="#">Monumenten/Metadata</a> 
<a href="#">BGT</a> 	<a href="#">BGT/Data</a> 
	<a href="#">BGT/Vocabulair</a> 
	<a href="#">BGT/Metadata</a> 
<a href="#">CBS</a> 	<a href="#">CBS/Buurt</a> 
	<a href="#">CBS/Wijk</a> 
	<a href="#">CBS/Gemeente</a> 
	<a href="#">CBS/Vocabulair</a> 
	<a href="#">CBS/Metadata</a> 
<a href="#">Stakingen</a> 	<a href="#">Stakingen/Data</a> 
	<a href="#">Stakingen/Metadata</a> 
<a href="#">Gemeentegeschiedenis</a> 	<a href="#">Gemeentegeschiedenis/Data</a> 
	<a href="#">Gemeentegeschiedenis/Metadata</a> 



<http://geonovum.spotzi.com/task2>





Idproxy [Services](#) » [Basisregistratie Grootchalige Topografie \(BGT\), Valkenswaard](#) »

## Pand

<b>id</b>	_A2F312CFC03C44CE6E0532B0B5B0AD9B0
<b>objectBeginTijd</b>	2014-01-14
<b>identificatie.namespace</b>	NL.IMGeo
<b>identificatie.lokaalID</b>	G0858.72b37badea8844ee9a6f1aa0031a97d7
<b>tijdstipRegistratie</b>	2014-01-14T07:52:10
<b>eindRegistratie</b>	2015-06-25T08:11:58
<b>LV-publicatiedatum</b>	2014-08-10T16:22:23
<b>bronhouder</b>	G0858
<b>relatieveHoogteligging</b>	0
<b>bgt-status</b>	bestaand
<b>plus-status</b>	geenWaarde
<b>identificatieBAGPND</b>	0858100000002510

Valkenswaard

<https://github.com/geo4web-testbed/topic1-task2-alterra>

Topography  
(BRT)

Spatial data on the web

Large Scale  
Topography  
(BGT)

WFS-service with LD proxy  
on top of it (LL4)

Land use  
data

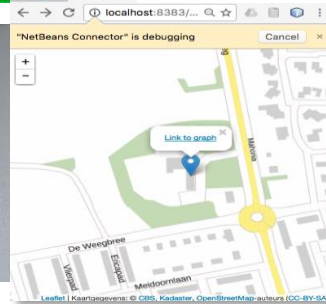
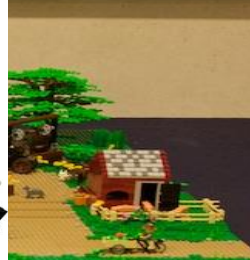
API (LL2 & LL3)

Enrichment with  
terms, information  
model and  
documentation

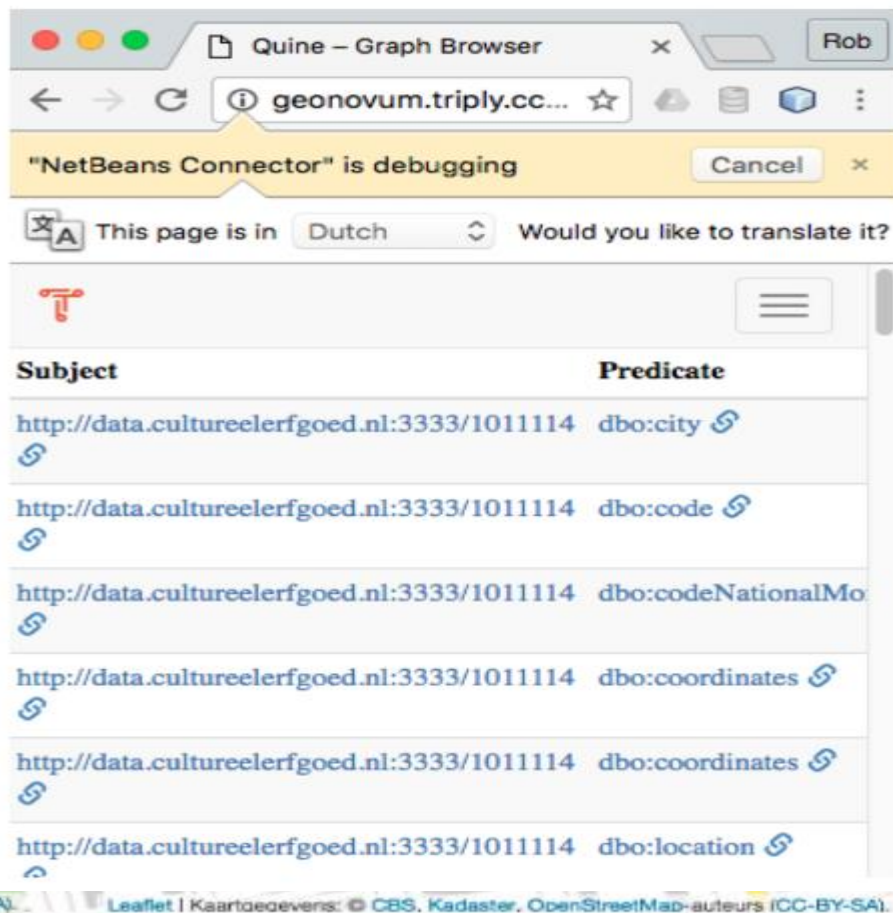
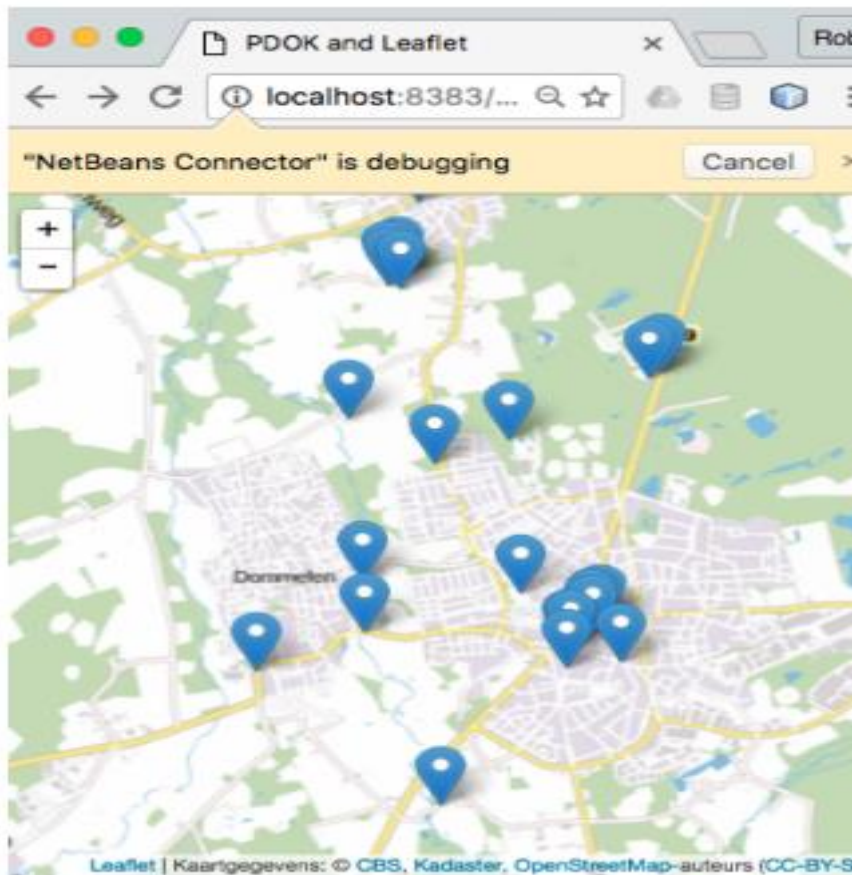
Cultural  
Heritage

API and possible XML

- \* Built monuments
- \* archeological monuments
- \* archeological sites
- \* archeological findings
- \* Image collection  
{beelbank{
- \* Art collections
- \* Thesauri. Describing the semantics of the data
- \* Historical geocoder
- \* API with old Dutch placenames







# Geodata >> op het Web

